UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/659,035	09/09/2003	Takuya Tsujimoto	CFA 00007 US (MOI 400-214	3293

7590	06/28/2005	

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EXAMINER
HAUPT, KRISTY A

ART UNIT	PAPER NUMBER
2853	

DATE MAILED: 06/28/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

PTO-90C (Rev. 10/03)

	Application No.	Applicant(s)
Office Action Summary	10/659,035	TSUJIMOTO, TAKUYA
	Examiner	Art Unit	
	Kristy A. Haupt	2853	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE <u>3</u> MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.
- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on <u>09 September 2003</u>.
2a)☐ This action is **FINAL.**   2b)☒ This action is non-final.
3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☒ Claim(s) <u>1-21</u> is/are pending in the application.
    4a) Of the above claim(s) _____ is/are withdrawn from consideration.
5)☐ Claim(s) _____ is/are allowed.
6)☒ Claim(s) <u>1-21</u> is/are rejected.
7)☐ Claim(s) _____ is/are objected to.
8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☐ The specification is objected to by the Examiner.
10)☒ The drawing(s) filed on <u>09 September 2003</u> is/are: a)☒ accepted or b)☐ objected to by the Examiner.
    Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
    Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12)☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
    a)☒ All   b)☐ Some * c)☐ None of:
      1.☒ Certified copies of the priority documents have been received.
      2.☐ Certified copies of the priority documents have been received in Application No. _____.
      3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
    * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☒ Notice of References Cited (PTO-892)
2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
    Paper No(s)/Mail Date _____.
4) ☐ Interview Summary (PTO-413)
    Paper No(s)/Mail Date. _____ .
5) ☐ Notice of Informal Patent Application (PTO-152)
6) ☐ Other: _____.

DETAILED ACTION

Priority

The Examiner acknowledges the Applicant's request for priority under 35 USC § 119 for

Application Number 10/659,035 filed September 9, 2003.

Claim Rejections - 35 USC § 102

1.   The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that

form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2.   Claims 1, 3, 4, 5, 8, 10, 11, 12, 17, 18 and 19 are rejected under 35

U.S.C. 102(b) as being anticipated by Schofield et al. US 6,386,669 B1.

With respect to claims 1, 8 and 15, Schofield et al. teaches a data processing

apparatus, method and a computer-readable program:

- An acquisition unit for acquiring feature information of a printing medium

    set on a printing apparatus from the printing apparatus (Column 12, Lines

    50-53)

- An input unit for inputting information associated with a printing medium

    type (Figure 2 shows two input leads, 108 and 109, extending from media

sensor, 100, that deliver sensor signals back to the print controller

(Column 8, Lines 59-63)

- A registration unit for registering, in a relational manner, the feature

  information of the printing medium acquired from the acquisition unit and

  the information associated with the printing medium input via the input unit

  (Column 7, Lines 15-22 where a host device, such as a computer, can

  interact with the printer controller to send or receive information; Also,

  Figure 1 teaches a printer controller, 35, where the sensor delivers the

  signals back to the printer controller (Column 8, 62-63))

With respect to claims 3, 10 and 17 Schofield et al. teaches a data processing

apparatus, method and computer-readable program:

- Wherein the information associated with the printing medium includes

  medium type (Column 8, Lines 52-53)

With respect to claims 4, 11 and 18, Schofield et al. teaches a data processing

apparatus, method and computer-readable program:

- A detection unit for detecting the printing medium type on the basis of the

  feature information of the printing medium acquired by the acquisition unit

  (Column 12, Lines 54-58)

- A unit for setting a printing condition on the basis of the result of detection

  performed by the detection unit (Column 18, Lines 27-30)

With respect to claims 5, 12 and 19, Schofield et al. teaches a data processing

apparatus, method and computer-readable program:

- Wherein the registration unit makes registration such that the feature

    information of a printing medium acquired by the acquisition unit, the

    information associated with the printing medium input via the input unit,

    and the information associated with print quality are related with each

    other (Figure 15 shows that the data collected by the acquisition unit is

    used to determine the type of medium that was sensed and sent to the

    printer controller by the input leads, which in turn is used to select the print

    mode that will be used for printing)

Claim Rejections - 35 USC § 103

3.   The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all

obviousness rejections set forth in this Office action:

> (a) A patent may not be obtained though the invention is not identically disclosed or described as set
> forth in section 102 of this title, if the differences between the subject matter sought to be patented and
> the prior art are such that the subject matter as a whole would have been obvious at the time the
> invention was made to a person having ordinary skill in the art to which said subject matter pertains.
> Patentability shall not be negatived by the manner in which the invention was made.

4.   Claims 1, 2, 3, 8, 9, 10, 15, 16, and 17 are rejected under 35 U.S.C. 103(a) as

being unpatentable over Paczewitz US 6,574,002 B1. in view of Schofield et al. US

6,386,669 B1.

With respect to claims 1, 8 and 15, Paczewitz teaches a data processing
apparatus, method and computer-readable program comprising:

- An input unit for inputting information associated with a printing medium
  type (Column 1, Lines 44-46)

With respect to claims 2, 9, and 16 Paczewitz teaches a data processing
apparatus, method and computer-readable program:

- Wherein the information associated with the printing medium includes
  medium name (Figure 3 teaches a pop up dialog box, 20, that allows a
  user to select a type of printing medium in the paper type combination
  box, 21, by the printing medium name)

With respect to claims 3, 10, and 17 Paczewitz teaches a data processing
apparatus, method and computer-readable program:

- Wherein the information associated with the printing medium includes
  medium type (Column 1, Lines 44-46)

Paczewitz fails to explicitly teach:

With respect to claims 1, 8 and 15:

- An acquisition unit for acquiring feature information of a printing medium
  set on a printing apparatus from the printing apparatus

- A registration unit for registering, in a relational manner, the feature

  information of the printing medium acquired from the acquisition unit and

  the information associated with the printing medium input via the input unit

However, Schofield et al. teaches:

With respect to claims 1, 8 and 15:

- An acquisition unit for acquiring feature information of a printing medium

  set on a printing apparatus from the printing apparatus (Column 12, Lines

  50-53)

- An input unit for inputting information associated with a printing medium

  type (Figure 2 shows two input leads, 108 and 109, extending from media

  sensor, 100, that deliver sensor signals back to the print controller

  (Column 8, Lines 59-63))

- A registration unit for registering, in a relational manner, the feature

  information of the printing medium acquired from the acquisition unit and

  the information associated with the printing medium input via the input unit

  (Column 7, Lines 15-22 where a host device, such as a computer, can

  interact with the printer controller to send or receive information; Also,

  Figure 1 teaches a printer controller, 35, where the sensor delivers the

  signals back to the printer controller (Column 8, Lines 62-63))

Therefore, it would have been obvious to one of ordinary skill in the art to modify

Paczewitz with the acquisition unit in Schofield so the printer can automatically tailor the

print mode to generate optimal images on the specific type of media without requiring

bothersome user intervention (Column 1, Lines 22-25).

It would have been obvious to one of ordinary skill in the art to include an input

unit that allows the sensor signals to be delivered back to the printer controller (Column

8, Lines 62-63) where it can interact with the computer to send and receive information

(Column 7, Lines 15-30) in order to classify incoming media (Abstract, Line 1).

It would have been obvious to one of ordinary skill in the art to include a

registration unit that allows for the printer controller and the host device to interact

(Column 7, Lines 15-22) to gather data that can be used to classify media and select a

corresponding print mode (Column 4, Lines 3-7).

5.   Claims 6, 7, 13, 14, 20 and 21 are rejected under 35 U.S.C. 103(a) as being

unpatentable over Schofield et al. US 6,386,669 B1 in view of Paczewitz US 6,574,002

B1.

With respect to claims 6, 13 and 20, Schofield et al. teaches a data processing

apparatus, method and computer-readable program comprising:

- An acquisition unit for acquiring, from a printing apparatus, feature

  information of a printing medium set on the printing apparatus (Column 12,

  Lines 50-53)

- A display unit for displaying information associated with the type of the printing medium (Column 2, Lines 30-32), in accordance with the feature information of the printing medium acquired from the acquisition unit (Column 7, Lines 15-22 where a host device, such as a computer, can interact with the printer controller to send or receive information)

With respect to claims 6, 13 and 20 Schofield et al. fails to explicitly teach:

- A selection unit for selecting a printing medium type
- A correction unit for making a correction such that the information associated with the printing medium type corresponding to the feature information of the printing medium acquired by the acquisition unit is replaced with the printing medium type selected by the selection unit

With respect to claims 7, 14 and 21, Schofield et al. fails to explicitly teach:

- The selection unit selects the printing medium type in accordance with a correction command

However, Paczewitz teaches:

With respect to claims 6, 13 and 20:

- A selection unit for selecting a printing medium type (Column 1, Lines 44-46)

- A correction unit for making a correction such that the information associated with the printing medium type corresponding to the feature information of the printing medium acquired by the acquisition unit is replaced with the printing medium type selected by the selection unit (Abstract: when the user changes the selection of media-type the printing parameters are changed, or corrected)

With respect to claims 7, 14 and 21:

- The selection unit selects the printing medium type in accordance with a correction command (Column 1, Lines 46-48 teaches a different media-type being selected when a user changes the type of desired type of media to print upon)

Therefore, it would have been obvious to one of ordinary skill in the art to add a selection unit to Schofield et al. so the printer knows the correct media type to perform optimum printing (Column 1, 21-23).

The correction unit allows for the printing parameters to be changed when a medium type is selected by the selection unit (Abstract), so the printer knows the correct media type to perform optimum printing (Column 1, 21-23).

It would have also been obvious to one of ordinary skill in the art to allow the selection unit to select the printing medium type in accordance with a correction

command in order to allow the user to change media-type in order to receive the best

output for each paper type (Column 2, Lines 25-26)

Contact Information

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Kristy A. Haupt whose telephone number is (571) 272-

8545. The examiner can normally be reached on M-F 7:00-3:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Stephen Meier can be reached on (571) 272-2149. The fax phone number

for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

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Business Center (EBC) at 866-217-9197 (toll-free).

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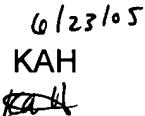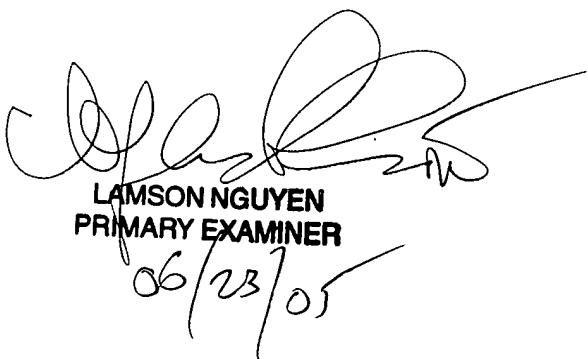
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